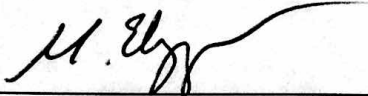


THE UNIVERSITY OF WESTERN ONTARIO
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CERTIFICATE OF EXAMINATION

Supervisor



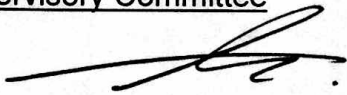
Dr. M. Hesham El Naggar

Examiners



Dr. Dieter Stolle

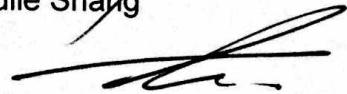
Supervisory Committee



Dr. Tim Newson



Dr. Julie Shang



Dr. Tim Newson

The thesis by

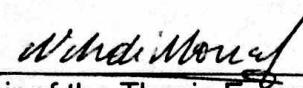
Jared Louis Harnish

entitled:

Helical Pile Installation Torque and Capacity Correlations

is accepted in partial fulfillment of the
requirements for the degree of
Master of Engineering Science

April 07, 2015
Date


Chair of the Thesis Examination Board